XLPE/PVC Single Core Aluminium SDI

240mm2 Al XLPE / PVC SDI Black

Contact
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Nexans Ref.: BDBA26AA001CXNA
Country Ref.: BDBA26AA001CXNA
EAN 13: 9319215280263

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DESCRIPTION

Single core XLPE SDI Cable

- Single core, 0.6/1kV X-90 insulated,
- PVC sheathed to AS/NZS 5000.1,
- Aluminium conductor, 90°C.

Mains; Submains

STANDARDS

National AS/NZS 1125; AS/NZS 5000.1

Conductor flexibility
Class 2

Rated Voltage Uo/U (Um)
0,6/1 kV

Cable flexibility
Rigid

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CHARACTERISTICS

Construction characteristics	
Colour	Black
Conductor material	Aluminum
Type of conductor	Circular compacted
Conductor shape	Circular
Conductor flexibility	Class 2
Insulation	X-90
Outer sheath	PVC
Dimensional characteristics	
Approximate weight	91.0 kg/100m
Cable length	- m
Conductor cross-section	240 mm²
Nominal insulation thickness	1.7 mm
Nominal outer sheath thickness	1.7 mm
Nominal overall diameter	25.1 mm
Number of cores	1
Electrical characteristics	
Conductor AC resistance at 50 Hz	0.155 Ohm/km
Inductive reactance at 50Hz - flat touching	0.097 Ohm/km
Inductive reactance at 50Hz - trefoil	0.082 Ohm/km
Insulation resistance at 20°C	230 MOhm.km
Max. DC resistance of the conductor at 20°C	0.125 Ohm/km
Rated Voltage Uo/U (Um)	0,6/1 kV
Mechanical characteristics	
Cable flexibility	Rigid
Maximum Pull Tension of Conductor	12 kN
Maximum Pulling Tension	3 kN
Usage characteristics	
Minimum Bend Radius - During Installation (under Tension)	300 mm
Minimum Bend Radius - Installed	200 mm

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XLPE/PVC SINGLE CORE - CURRENT CARRYING CAPACITY TABLE SINGLE PHASE (IN AMPS)

Copper or Aluminium Conductor XLPE Insulation Maximum Conductor Temperature 90C

Conductor cross-section																		
[mm²]	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
240	678	527	622	485	522	408	461	360	369	288	-	-	630	492	497	388	536	417

 Unenclosed spaced

 Unenclosed spaced from surface

 Unenclosed touching

 Enclosed conduit in air

 Thermal insulation, partially surrounded by thermal insulation

 Thermal Insulation, completely surrounded by thermal insulation

 Buried direct

 Underground ducts A - Underground Wiring Enclosure

 Underground ducts B - Individual Wiring Enclosure

XLPE/PVC SINGLE CORE - CURRENT CARRYING CAPACITY TABLE THREE PHASE (IN AMPS)

Copper or Aluminium Conductor XLPE Insulation Maximum Conductor Temperature 90C

Conductor cross-section																		
[mm²]	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
240	660	513	560	438	521	407	399	312	320	250	-	-	523	409	426	333	477	371

 Unenclosed spaced

 Unenclosed spaced from surface

 Unenclosed touching

 Enclosed conduit in air

 Thermal insulation, partially surrounded by thermal insulation

 Thermal Insulation, completely surrounded by thermal insulation

 Buried direct

 Underground ducts A - Underground Wiring Enclosure

 Underground ducts B - Individual Wiring Enclosure